***** SEARCH HISTORY *****

```
=> d his nof

     (FILE 'HOME' ENTERED AT 09:57:55 ON 18 MAR 2009)

     FILE 'REGISTRY' ENTERED AT 09:58:16 ON 18 MAR 2009
L1            STRUCTURE UPLOADED
              D

Uploading L1.str
```
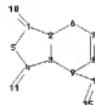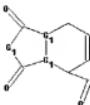


```
chain nodes :
10  11  12  15
ring nodes :
1  2  3  4  5  6  7  8  9
chain bonds :
1-10  4-11  9-12  12-15
ring bonds :
1-2  1-5  2-3  2-6  3-4  3-9  4-5  6-7  7-8  8-9
exact/norm bonds :
1-2  1-5  1-10  2-3  2-6  3-4  3-9  4-5  4-11  6-7  7-8  8-9  9-12  12-15


G1:C,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:CLASS
11:CLASS  12:CLASS  15:CLASS




L2            6 SEA SSS SAM L1

     FILE 'STNGUIDE' ENTERED AT 09:59:01 ON 18 MAR 2009

     FILE 'REGISTRY' ENTERED AT 10:03:14 ON 18 MAR 2009
L3            STRUCTURE UPLOADED
              D

Uploading L2.str
```
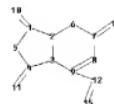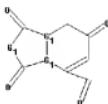
```
chain nodes :
10  11  12  15  16
ring nodes :
1  2  3  4  5  6  7  8  9
chain bonds :
1-10  4-11  7-16  9-12  12-15
ring bonds :
1-2  1-5  2-3  2-6  3-4  3-9  4-5  6-7  7-8  8-9
exact/norm bonds :
1-2  1-5  1-10  2-3  2-6  3-4  3-9  4-5  4-11  6-7  7-8  7-16  8-9  9-12  12-15



G1:C,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:CLASS
11:CLASS  12:CLASS  15:CLASS  16:CLASS



L4          0 SEA SSS SAM L3
L5          7 SEA SSS SAM L1 OR L3
              D SCAN
L6       1514 SEA SSS FUL L1 OR L3
              SAVE TEMP L6 SPI043REL1L2/A

     FILE 'HCAPLUS' ENTERED AT 10:10:27 ON 18 MAR 2009
L7          1 SEA ABB=ON  PLU=ON  US20060293372/PN

     FILE 'REGISTRY' ENTERED AT 10:36:03 ON 18 MAR 2009
L8            STRUCTURE UPLOADED
              D

Uploading L3.str
```
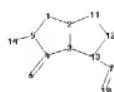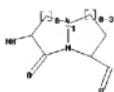
```
chain nodes :
6  7  10  14
ring nodes :
1  2  3  4  5  11  12  13
chain bonds :
4-6  5-14  7-10  7-13
ring bonds :
1-2  1-5  2-3  2-11  3-4  3-13  4-5  11-12  12-13
exact/norm bonds :
1-2  1-5  2-3  2-11  3-4  3-13  4-5  4-6  5-14  7-10  7-13  11-12  12-13


G1:C,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  10:CLASS  11:Atom
12:Atom
13:Atom  14:CLASS



L9              STRUCTURE UPLOADED
                D

Uploading L4.str
```
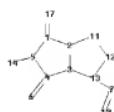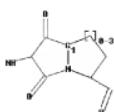
```
chain nodes :
6  7  10  14  17
ring nodes :
1  2  3  4  5  11  12  13
chain bonds :
1-17  4-6  5-14  7-10  7-13
ring bonds :
1-2  1-5  2-3  2-11  3-4  3-13  4-5  11-12  12-13
exact/norm bonds :
1-2  1-5  1-17  2-3  2-11  3-4  3-13  4-5  4-6  5-14  7-10  7-13  11-12  12-13
```

```
G1:C,N
```

```
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  10:CLASS  11:Atom
12:Atom
13:Atom  14:CLASS  17:CLASS
```

```
L10           STRUCTURE UPLOADED
              D
```

```
Uploading L5.str
```
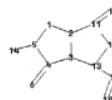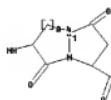


```
chain nodes :
6  7  10  14  17
ring nodes :
1  2  3  4  5  11  12  13
chain bonds :
4-6  5-14  7-10  7-13  11-17
ring bonds :
1-2  1-5  2-3  2-11  3-4  3-13  4-5  11-12  12-13
exact/norm bonds :
1-2  1-5  2-3  2-11  3-4  3-13  4-5  4-6  5-14  7-10  7-13  11-12  11-17  12-13
```

```
G1:C,N
```

```
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  10:CLASS  11:Atom
12:Atom
13:Atom  14:CLASS  17:CLASS




L11           0 SEA SUB=L6 SSS SAM L8 OR L9 OR L10
L12           0 SEA SUB=L6 SSS FUL L8 OR L9 OR L10
L13          50 SEA SSS SAM L8 OR L9 OR L10
L14             STRUCTURE UPLOADED
                D

Uploading L6.str
```
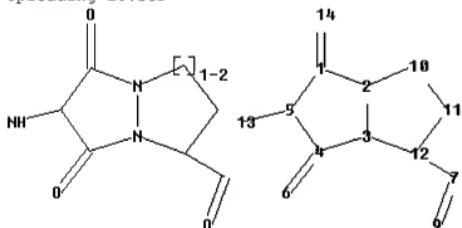


```
chain nodes :
6  7  9  13  14
ring nodes :
1  2  3  4  5  10  11  12
chain bonds :
1-14  4-6  5-13  7-9  7-12
ring bonds :
1-2  1-5  2-3  2-10  3-4  3-12  4-5  10-11  11-12
exact/norm bonds :
1-2  1-5  1-14  2-3  2-10  3-4  3-12  4-5  4-6  5-13  7-9  10-11  11-12
exact bonds :
7-12


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  9:CLASS  10:Atom  11:Atom
12:Atom  13:CLASS  14:CLASS




L15             STRUCTURE UPLOADED
                D
Uploading L7.str
```
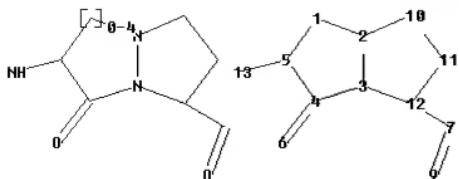
```
chain nodes :
6  7  9  13
ring nodes :
1  2  3  4  5  10  11  12
chain bonds :
4-6  5-13  7-9  7-12
ring bonds :
1-2  1-5  2-3  2-10  3-4  3-12  4-5  10-11  11-12
exact/norm bonds :
1-2  1-5  2-3  2-10  3-4  3-12  4-5  4-6  5-13  7-9  10-11  11-12
exact bonds :
7-12


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  9:CLASS  10:Atom  11:Atom
12:Atom  13:CLASS



L16              STRUCTURE UPLOADED
                 D

Uploading L8.str
```
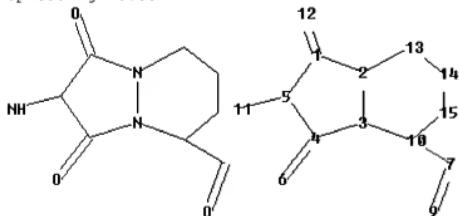


```
chain nodes :
6  7  9  11  12
ring nodes :
1  2  3  4  5  10  13  14  15
chain bonds :
1-12  4-6  5-11  7-9  7-10
ring bonds :
1-2  1-5  2-3  2-13  3-4  3-10  4-5  10-15  13-14  14-15
exact/norm bonds :
1-2  1-5  1-12  2-3  2-13  3-4  3-10  4-5  4-6  5-11  7-9  10-15  13-14  14-15
```

```
exact bonds :
7-10


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  9:CLASS  10:Atom
11:CLASS
12:CLASS  13:Atom  14:Atom  15:Atom




L17              STRUCTURE UPLOADED
                 D

Uploading L9.str
```
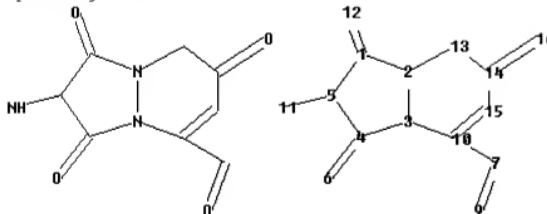


```
chain nodes :
6   7   9   11  12  16
ring nodes :
1   2   3   4   5   10  13  14  15
chain bonds :
1-12  4-6  5-11  7-9  7-10  14-16
ring bonds :
1-2  1-5  2-3  2-13  3-4  3-10  4-5  10-15  13-14  14-15
exact/norm bonds :
1-2  1-5  1-12  2-3  2-13  3-4  3-10  4-5  4-6  5-11  7-9  10-15  13-14  14-15  14-
16

exact bonds :
7-10


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  9:CLASS  10:Atom
11:CLASS
12:CLASS  13:Atom  14:Atom  15:Atom  16:CLASS




L18          0 SEA SUB=L6 SSS SAM L14 OR L15 OR L16 OR L17
L19          0 SEA SUB=L6 SSS FUL L14 OR L15 OR L16 OR L17

     FILE 'STNGUIDE' ENTERED AT 10:47:04 ON 18 MAR 2009

     FILE 'REGISTRY' ENTERED AT 10:56:10 ON 18 MAR 2009
```

```
L20              STRUCTURE UPLOADED
                 D
```

Uploading L10.str
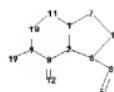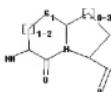

```
chain nodes :
3  5  12  19
ring nodes :
1  2  6  7  8  9  10  11  16
chain bonds :
3-5  3-6  8-12  9-19
ring bonds :
1-7  1-2  1-11  2-6  2-8  6-16  7-16  8-9  9-10  10-11
exact/norm bonds :
1-7  1-2  1-11  2-6  2-8  3-5  3-6  6-16  7-16  8-9  8-12  9-10  9-19  10-11


G1:O,S

Match level :
1:Atom  2:Atom  3:CLASS  5:CLASS  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom
12:CLASS  16:Atom  19:CLASS
```

```
L21              STRUCTURE UPLOADED
                   D
```

Uploading L11.str
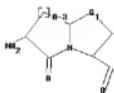
```
chain nodes :
3   5   9   14
ring nodes :
1   2   6   7   8   11   12   13
chain bonds :
3-5   3-6   8-9   13-14
ring bonds :
1-7   1-2   1-12   2-6   2-8   6-11   7-11   8-13   12-13
exact/norm bonds :
1-7   1-2   1-12   2-6   2-8   3-5   3-6   6-11   7-11   8-9   8-13   12-13   13-14
```

```
G1:O,S
```

```
Match level :
1:Atom   2:Atom   3:CLASS   5:CLASS   6:Atom   7:Atom   8:Atom   9:CLASS   11:Atom   12:Atom
13:CLASS   14:CLASS
```

```
L22                 STRUCTURE UPLOADED
                      D
```

```
Uploading L12.str
```
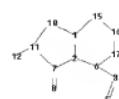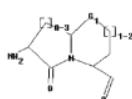
```
chain nodes :
3   5   8   12
ring nodes :
1   2   6   7   10   11   15   16   17
chain bonds :
3-5   3-6   7-8   11-12
ring bonds :
1-10   1-2   1-15   2-6   2-7   6-17   7-11   10-11   15-16   16-17
exact/norm bonds :
1-10   1-2   1-15   2-6   2-7   3-5   3-6   6-17   7-8   7-11   10-11   11-12   15-16   16-17


G1:O,S

Match level :
1:Atom   2:Atom   3:CLASS   5:CLASS   6:Atom   7:Atom   8:CLASS   10:Atom   11:CLASS
12:CLASS
15:CLASS   16:CLASS   17:Atom




L23          15 SEA SSS SAM L20 OR L21 OR L22
L24         952 SEA SSS FUL L20 OR L21 OR L22


     FILE 'HCAPLUS' ENTERED AT 11:32:05 ON 18 MAR 2009
L25        3540 SEA ABB=ON  PLU=ON  L24
                E PHOSPHOTRANSFERASE/CT
                E E3+ALL
L26         415 SEA ABB=ON  PLU=ON  PHOSPHOTRANSFERASE+OLD/CT
                E PHOSPHORYLATION/CT
                E E3+ALL
L27      119677 SEA ABB=ON  PLU=ON  PHOSPHORYLATION+OLD,NEW,PFT/CT
L28           0 SEA ABB=ON  PLU=ON  L6 AND (L26 OR L27)
L29      228895 SEA ABB=ON  PLU=ON  PHOSPHOTRANSFER? OR PHOSPHORYLAT?
L30       15261 SEA ABB=ON  PLU=ON  ENZYME# (S) L29
L31           0 SEA ABB=ON  PLU=ON  L6 AND L30
L32          13 SEA ABB=ON  PLU=ON  L6 AND KINASE#
                E PHOSPHOLIPASE/CT
L33           3 SEA ABB=ON  PLU=ON  L25 AND (L26 OR L27)
L34           1 SEA ABB=ON  PLU=ON  L25 AND L30
                D SCAN TI HIT


     FILE 'REGISTRY' ENTERED AT 11:42:21 ON 18 MAR 2009
L35           1 SEA ABB=ON  PLU=ON  167305-00-2/RN
                D SCAN


     FILE 'HCAPLUS' ENTERED AT 11:43:28 ON 18 MAR 2009
L36           7 SEA ABB=ON  PLU=ON  L25 AND L29
                D SCAN TI HIT


     FILE 'REGISTRY' ENTERED AT 11:46:43 ON 18 MAR 2009
L37          50 SEA SSS SAM L8 OR L9 OR L10
L38        4607 SEA SSS FUL L8 OR L9 OR L10
                SAVE TEMP L24 SPI043RECOM1/A
                SAVE TEMP L38 SPI043RECOM2/A


     FILE 'HCAPLUS' ENTERED AT 11:48:56 ON 18 MAR 2009
L39        1225 SEA ABB=ON  PLU=ON  L38
```

```
L40          1 SEA ABB=ON  PLU=ON  L39 AND L7
               D SCAN


     FILE 'REGISTRY' ENTERED AT 11:52:18 ON 18 MAR 2009
L41         14 SEA SSS SAM L14 OR L15 OR L16
L42        208 SEA SSS FUL L14 OR L15 OR L16
               SAVE TEMP L42 SPI043RECOM3/A


     FILE 'HCAPLUS' ENTERED AT 11:53:58 ON 18 MAR 2009
L43       1225 SEA ABB=ON  PLU=ON  L38
L44         32 SEA ABB=ON  PLU=ON  L42
L45          1 SEA ABB=ON  PLU=ON  (L43 OR L44) AND (L26 OR L27)
L46          3 SEA ABB=ON  PLU=ON  (L43 OR L44) AND L29
L47          3 SEA ABB=ON  PLU=ON  (L43 OR L44) AND (L30 OR PHOSPHOLIPASE#)
L48         25 SEA ABB=ON  PLU=ON  L32 OR L33 OR L34 OR L36 OR (L45 OR L46 OR
               L47)
L49         13 SEA ABB=ON  PLU=ON  L48 AND (L26 OR L27 OR L29 OR L30 OR
               PHOSPHOLIPASE#)
L50          1 SEA ABB=ON  PLU=ON  US20060293372/PN
               E QABAR N/AU
L51         28 SEA ABB=ON  PLU=ON  ("QABAR M"/AU OR "QABAR MAHER"/AU OR
               "QABAR MAHER N"/AU OR "QABAR MAHER NICOLA"/AU)
               E MCMILLAN MICHAEL K/AU
L52         11 SEA ABB=ON  PLU=ON  ("MCMILLAN MICHAEL"/AU OR "MCMILLAN
               MICHAEL K"/AU OR "MCMILLAN MICHAEL KIM"/AU OR "MCMILLAN
               MICHAEL KURT"/AU)
               E KAHN MICHAEL S/AU
L53          3 SEA ABB=ON  PLU=ON  ("KAHN MICHAEL S"/AU OR "KAHN MICHAEL
               STEVEN"/AU)
               E TULINSKY JOHN E/AU
L54         23 SEA ABB=ON  PLU=ON  ("TULINSKY J"/AU OR "TULINSKY JOHN"/AU OR
               "TULINSKY JOHN E"/AU OR "TULINSKY JOHN EDWARD"/AU)
               E OGBU CYPRIAN O/AU
L55         22 SEA ABB=ON  PLU=ON  ("OGBU CY O"/AU OR "OGBU CYPRIAN"/AU OR
               "OGBU CYPRIAN O"/AU)
               E MATHEW JESSYMOL/AU
L56         30 SEA ABB=ON  PLU=ON  ("MATHEW JESSY"/AU OR "MATHEW JESSY E"/AU
               OR "MATHEW JESSYMOL"/AU)
L57          2 SEA ABB=ON  PLU=ON  ((L51 OR L52 OR L53 OR L54 OR L55 OR L56))
               AND (L26 OR L27)
L58          2 SEA ABB=ON  PLU=ON  ((L51 OR L52 OR L53 OR L54 OR L55 OR L56))
               AND (L29 OR L30)
L59          2 SEA ABB=ON  PLU=ON  L57 OR L58


     FILE 'REGISTRY' ENTERED AT 12:06:15 ON 18 MAR 2009
L60          2 SEA ABB=ON  PLU=ON  L6 AND (MEDLINE OR BIOSIS OR DRUGU OR
               EMBASE)/LC
L61          6 SEA ABB=ON  PLU=ON  L24 AND (MEDLINE OR BIOSIS OR DRUGU OR
               EMBASE)/LC
L62         15 SEA ABB=ON  PLU=ON  L38 AND (MEDLINE OR BIOSIS OR DRUGU OR
               EMBASE)/LC
L63          0 SEA ABB=ON  PLU=ON  L42 AND (MEDLINE OR BIOSIS OR DRUGU OR
               EMBASE)/LC


     FILE 'MEDLINE' ENTERED AT 12:07:40 ON 18 MAR 2009
L64          1 SEA ABB=ON  PLU=ON  ((L60 OR L61 OR L62 OR L63)) AND (L26 OR
               L27)
L65          1 SEA ABB=ON  PLU=ON  ((L60 OR L61 OR L62 OR L63)) AND (L29 OR
               L30)
```

```
      FILE 'BIOSIS' ENTERED AT 12:08:39 ON 18 MAR 2009
L66        4 SEA ABB=ON  PLU=ON  ((L60 OR L61 OR L62 OR L63)) AND (L29 OR
           L30)


      FILE 'DRUGU' ENTERED AT 12:09:08 ON 18 MAR 2009
L67        3 SEA ABB=ON  PLU=ON  ((L60 OR L61 OR L62 OR L63)) AND (L29 OR
           L30)


      FILE 'EMBASE' ENTERED AT 12:09:28 ON 18 MAR 2009
L68       12 SEA ABB=ON  PLU=ON  ((L60 OR L61 OR L62 OR L63)) AND (L29 OR
           L30)
           D TI KWIC 1-5


      FILE 'STNGUIDE' ENTERED AT 12:10:44 ON 18 MAR 2009
           D QUE L59


      FILE 'HCAPLUS' ENTERED AT 12:12:57 ON 18 MAR 2009
           D L59 1-2 IBIB ABS HITSTR


      FILE 'STNGUIDE' ENTERED AT 12:12:58 ON 18 MAR 2009
           D QUE L49
           D QUE L65
           D QUE L66
           D QUE L67
           D QUE L68


      FILE 'HCAPLUS, MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:14:09 ON 18
      MAR 2009
L69       24 DUP REM L49 L65 L66 L67 L68 (9 DUPLICATES REMOVED)
                 ANSWERS '1-13' FROM FILE HCAPLUS
                 ANSWER '14' FROM FILE MEDLINE
                 ANSWER '15' FROM FILE BIOSIS
                 ANSWERS '16-17' FROM FILE DRUGU
                 ANSWERS '18-24' FROM FILE EMBASE
           D L69 1-13 IBIB ABS HITSTR HITIND
           D L69 14-24 IBIB AB HITIND
```